

=> b reg

FILE 'REGISTRY' ENTERED AT 13:22:57 ON 22 MAR 2007
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 20 MAR 2007 HIGHEST RN 927800-28-0
 DICTIONARY FILE UPDATES: 20 MAR 2007 HIGHEST RN 927800-28-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

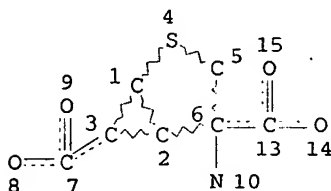
Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d que sta 19

L7 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
 L9 64 SEA FILE=REGISTRY SSS FUL L7

100.0% PROCESSED 85 ITERATIONS 64 ANSWERS
 SEARCH TIME: 00.00.01

=> d bib abs fhitrn hitrn 119 tot

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:n

=> b hcap

FILE 'HCAPLUS' ENTERED AT 13:23:21 ON 22 MAR 2007
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is

held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

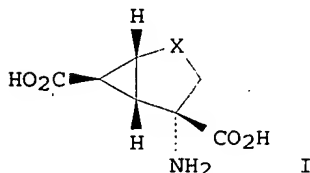
FILE COVERS 1907 - 22 Mar 2007 VOL 146 ISS 13
FILE LAST UPDATED: 21 Mar 2007 (20070321/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs fhitrn hitrn 119 tot

L19 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:1341533 HCAPLUS
DN 146:251680
TI Synthesis and Metabotropic Glutamate Receptor Activity of S-Oxidized Variants of (-)-4-Amino-2-thiabicyclo-[3.1.0]hexane-4,6-dicarboxylate: Identification of Potent, Selective, and Orally Bioavailable Agonists for mGlu2/3 Receptors
AU Monn, James A.; Massey, Steven M.; Valli, Matthew J.; Henry, Steven S.; Stephenson, Gregory A.; Bures, Mark; Herin, Marc; Catlow, John; Giera, Deborah; Wright, Rebecca A.; Johnson, Bryan G.; Andis, Sherri L.; Kingston, Ann; Schoepp, Darryle D.
CS Discovery Chemistry and Neuroscience Research Divisions, Eli Lilly and Company, Indianapolis, IN, 46285, USA
SO Journal of Medicinal Chemistry (2007), 50(2), 233-240
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
GI



AB (-)-4-Amino-2-thiabicyclo-[3.1.0]hexane-4,6-dicarboxylate (-)-I (X = S) (LY389795) is a highly potent and selective agonist of metabotropic glutamate receptors 2 (mGlu2) and 3 (mGlu3). As part of the ongoing research program, S-oxidized variants of this compound, namely both S-stereoisomers of I (X = SO) and I (X = SO2), were synthesized. Each of these chiral heterobicyclic amino acids displaced specific binding of the mGlu2/3 receptor antagonist 3H-2S-2-amino-2-(1S,2S-2-carboxycycloprop-1-yl)-3-(xanth-9-yl)propanoic acid (3H-LY341495) from membranes expressing recombinant human mGlu2 or mGlu3 and acted as potent agonists in cells expressing these receptor subtypes. Docking of the most potent of these derivs., (SR)-(+)-I [X = SO, (II)] to mGlu2 revealed the possibility of an addnl. H-bond interaction between the sulfoxide oxygen of II with tyrosine residue Y236. Pharmacokinetic anal. of mGlu active enantiomers II and (-)-I (X = SO2) in rats showed each to be well absorbed following oral administration. Consistent with their mGlu2/3 agonist potency and pharmacokinetic properties, both II and (-)-I (X = SO2) blocked

phencyclidine-evoked ambulations in a dose-dependent manner, indicating their potential as nonclassical antipsychotic agents.

IT 926291-20-5P

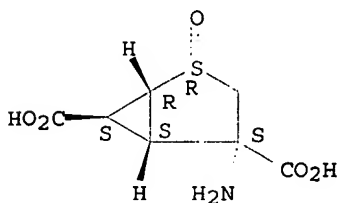
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(crystal structure and mol. modeling; synthesis and metabotropic glutamate receptor activity of S-oxidized derivs. of (-)-4-amino-2-thiabicyclo-[3.1.0]hexane-4,6-dicarboxylic acid as orally bioavailable agonists for mGlu2/3 receptors)

RN 926291-20-5 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-, 2-oxide, (1R,2R,4S,5S,6S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 926291-20-5P

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(crystal structure and mol. modeling; synthesis and metabotropic glutamate receptor activity of S-oxidized derivs. of (-)-4-amino-2-thiabicyclo-[3.1.0]hexane-4,6-dicarboxylic acid as orally bioavailable agonists for mGlu2/3 receptors)

IT 926291-16-9P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(crystal structure; synthesis and metabotropic glutamate receptor activity of S-oxidized derivs. of (-)-4-amino-2-thiabicyclo-[3.1.0]hexane-4,6-dicarboxylic acid as selective and orally bioavailable agonists for mGlu2/3 receptors)

IT 926291-14-7

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); BIOL (Biological study)

(synthesis and metabotropic glutamate receptor activity of S-oxidized derivs. of (-)-4-amino-2-thiabicyclo-[3.1.0]hexane-4,6-dicarboxylic acid as selective and orally bioavailable agonists for mGlu2/3 receptors)

IT 635318-11-5P

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(synthesis and metabotropic glutamate receptor activity of S-oxidized derivs. of (-)-4-amino-2-thiabicyclo-[3.1.0]hexane-4,6-dicarboxylic acid as selective and orally bioavailable agonists for mGlu2/3 receptors)

IT 222529-89-7

RL: PAC (Pharmacological activity); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)

(synthesis and metabotropic glutamate receptor activity of S-oxidized derivs. of (-)-4-amino-2-thiabicyclo-[3.1.0]hexane-4,6-dicarboxylic acid as selective and orally bioavailable agonists for mGlu2/3 receptors)

IT 926291-19-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(synthesis and metabotropic glutamate receptor activity of S-oxidized

derivs. of (-)-4-amino-2-thiabicyclo-[3.1.0]hexane-4,6-dicarboxylic acid as selective and orally bioavailable agonists for mGlu2/3 receptors)

IT 635317-62-3P 926291-15-8P 926291-17-0P
926291-18-1P 926291-21-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and metabotropic glutamate receptor activity of S-oxidized derivs. of (-)-4-amino-2-thiabicyclo-[3.1.0]hexane-4,6-dicarboxylic acid as selective and orally bioavailable agonists for mGlu2/3 receptors)

RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:761719 HCAPLUS

DN 143:279124

TI Analgesic effects of the selective group II (mGlu2/3) metabotropic glutamate receptor agonists LY379268 and LY389795 in persistent and inflammatory pain models after acute and repeated dosing

AU Jones, Carrie K.; Eberle, Elizabeth Lutz; Peters, Stephen C.; Monn, James A.; Shannon, Harlan E.

CS Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN, 46285, USA

SO Neuropharmacology (2005), 49(Suppl. 1), 206-218
CODEN: NEPHBW; ISSN: 0028-3908

PB Elsevier B.V.

DT Journal

LA English

AB Group II (mGluR2/3) metabotropic glutamate receptors have been implicated in the mechanisms of persistent pain states. In the present study, the effects of the selective group II metabotropic glutamate receptor agonists LY379268 and LY389795 were evaluated in the formalin test, carrageenan-induced thermal hyperalgesia and mech. allodynia, and capsaicin-induced mech. allodynia in rats. The agonists LY379268 and LY389795 produced dose-dependent decreases in formalin-induced behaviors that were antagonized by the mGlu2/3 receptor antagonist LY341495. The group II antagonist LY341495 produced parallel shifts in the LY379268 dose-response curve, consistent with a competitive antagonism. LY379268 decreased formalin-induced behaviors after intracisternal but not intrathecal administration, suggesting primarily a supraspinal site of action. Both LY379268 and LY389795 produced a dose-related reversal of carrageenan-induced thermal hyperalgesia and capsaicin-induced mech. allodynia, but had no effect on carrageenan-induced mech. allodynia. Both agonists also increased response latencies in the hot plate test, but were without effect in the tail-flick test. However, both agonists produced motor impairment on the inverted screen at doses that were analgesic. Moreover, tolerance to the analgesic effects of LY379268 developed after 4 days of once-daily repeated administration in the formalin, carrageenan, capsaicin and hot plate tests. The present findings indicate that group II (mGluR2/3) metabotropic glutamate receptors may be involved in the mechanisms of hyperalgesia and allodynia, however tolerance rapidly develops to these effects.

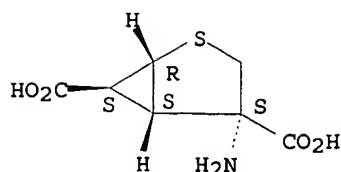
IT 222529-89-7, LY389795

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (analgesic effects of LY379268 and LY389795 in persistent and inflammatory pain models)

RN 222529-89-7 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-, (1R,4S,5S,6S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 222529-89-7, LY389795

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (analgesic effects of LY379268 and LY389795 in persistent and inflammatory pain models)

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:714957 HCAPLUS

DN 144:274498

TI The synthesis of isotopically labeled (+)-2-aminobicyclo[3.1.0]hexane-2,6-carboxylic acid and its 2-oxa- and 2-thia-analogs

AU Wheeler, William J.; O'Bannon, Douglas D.; Kennedy, Joseph H.; Monn, James A.; Tharp-Taylor, Roger W.; Valli, Matthew J.; Kuo, Fengjiun

CS Lilly Research Laboratories, A Division of Eli Lilly and Company, Indianapolis, IN, 46285, USA

SO Journal of Labelled Compounds & Radiopharmaceuticals (2005), 48(8), 605-620

CODEN: JLCRD4; ISSN: 0362-4803

PB John Wiley & Sons Ltd.

DT Journal

LA English

AB As part of a program aimed at the design of conformationally constrained analogs of glutamic acid, (+)-2-aminobicyclo[3.1.0]hexane-2,6-carboxylic acid (I), identified as a highly potent, selective, group II metabotropic glutamate receptor agonist was synthesized and studied clin. Heterocyclic analogs of I were subsequently synthesized in which the C(2) methylene was replaced by an oxygen atom (II) or a sulfur atom (III). Carbon-14-labeled isotopomers of I-III were synthesized to facilitate pre-clin. ADME studies. A tritium-labeled isotopomer of I was also synthesized for use in in vitro expts. A stable labeled isotopomer of rac-I was prepared for use as an internal standard for bioanal. assays. The key step in each of these syntheses was the reaction of 2-oxobicyclo[3.1.0]hexane-6-carboxylic acid (IV) or the appropriate aza or thia compound with K14CN/(NH4)2CO3 using the Bucherer-Berg protocol. In the preparation of the stable labeled isotopomer, rac-IV-[13C2] was prepared in two steps from Et bromoacetate-[UL-13C2]. Subsequent reaction of rac-IV-[13C2] with K13CN/15NH4Cl/Na2CO3, followed by hydrolysis of the hydantoin yielded rac-I-[13C3,15N].

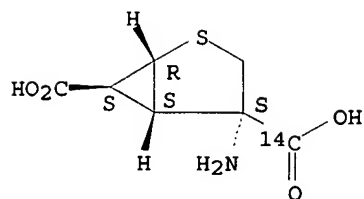
IT 878283-10-4P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of isotopically labeled aminobicyclo[3.1.0]hexanecarboxylate and oxa and thia analogs)

RN 878283-10-4 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic-4-14C acid, 4-amino-, (1R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 878283-10-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically labeled aminobicyclo[3.1.0]hexanecarboxylate
and oxa and thia analogs)

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:991499 HCAPLUS

DN 140:42463

TI Preparation of prodrugs of excitatory amino acids

IN Moher, Eric David; Monn, James Allen;

Pedregal-Tercero, Concepcion

PA Eli Lilly and Company, USA; Collado, Cano Ivan;

Blanco-Urgoiti, Jamie Gonzalo

SO PCT Int. Appl., 172 pp.

CODEN: PIXXD2

DT Patent

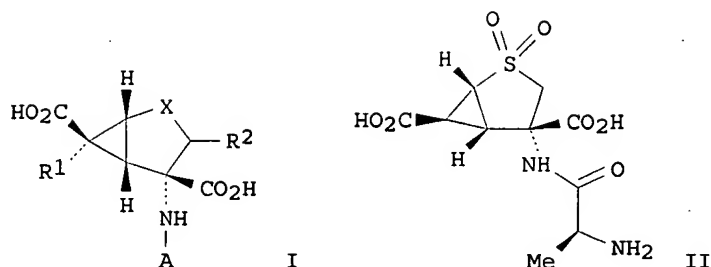
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2003104217	A2	20031218	2003WO-US15405	20030606 <--
WO2003104217	A3	20040226		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA--2488167	A1	20031218	2003CA-2488167	20030606 <--
AU2003232146	A1	20031222	2003AU-0232146	20030606 <--
EP--1517915	A2	20050330	2003EP-0757266	20030606 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP2006503807	T	20060202	2004JP-0511287	20030606 <--
US2005222231	A1	20051006	2004US-0516559	20041130 <--
IN2004KN01838	A	20060721	2004IN-KN01838	20041202 <--
NO2005000122	A	20050110	2005NO-0000122	20050110 <--
2002EP-0380120	A	20020611	<--	
2002EP-0380121	A	20020611	<--	
2002US-415936P	P	20021003	<--	
2002US-415937P	P	20021003	<--	
2003WO-US15405	W	20030606	<--	

OS MARPAT 140:42463

GI



AB The invention relates to synthetic excitatory amino acid prodrugs for the treatment of neurol. disorders and psychiatric disorders. Bicyclic amino acids I [A is H-Q1-10, where Q is aminoacyl; X is O, S, SO, SO₂, or substituted methylene; R₁ is H or F; R₂ is H, F, or OH] or their pharmaceutically-acceptable salts are claimed. Thus, prodrug II.HCl was prepared via peptide coupling reaction and shown to exhibit comparable concentration in rat plasma to that of the non-prodrug form.

IT 635318-22-8P

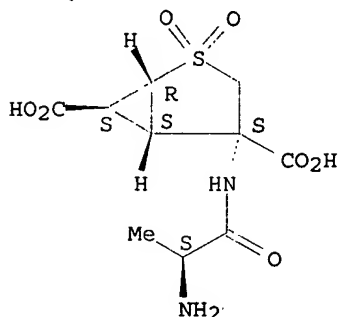
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of prodrugs of excitatory amino acids)

RN 635318-22-8 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-[[[(2S)-2-amino-1-oxopropyl]amino]-, 2,2-dioxide, monohydrochloride, (1R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

IT 635318-22-8P 635318-23-9P 635318-24-0P
635318-25-1P 635318-26-2P 635318-27-3P
635318-28-4P 635318-29-5P 635318-30-8P
635318-31-9P 635318-32-0P 635318-33-1P
635318-34-2P 635318-55-7P 635318-56-8P
635318-57-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of prodrugs of excitatory amino acids)

IT 635317-59-8P 635317-60-1P 635317-61-2P
635317-62-3P 635317-63-4P 635317-64-5P
635317-65-6P 635317-66-7P 635317-67-8P

635317-68-9P 635317-69-0P 635317-70-3P
 635317-71-4P 635317-72-5P 635317-73-6P
 635318-06-8P 635318-07-9P 635318-11-5P
 635318-67-1P 635702-50-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of prodrugs of excitatory amino acids)

L19 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:818322 HCAPLUS

DN 139:302068

TI Therapy for psychoses combining an atypical antipsychotic and an mGlu2/3
 receptor agonist

IN Johnson, Bryan Glenn; Schoepp, Darryle Darwin

PA Eli Lilly and Company, USA

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO2003084610	A1	20031016	2003WO-US07283	20030321	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	CA---	A1	20031016	2003CA-2478227	20030321	
	AU2003218063	A1	20031020	2003AU-0218063	20030321	
	EP---	A1	20050105	2003EP-0714045	20030321	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK		
	JP2005528378	T	20050922	2003JP-0581846	20030321	
	US2005192273	A1	20050901	2004US-0509772	20040928	
PRAI	2002US-369771P	P	20020403			
	2002US-369797P	P	20020403			
	2003WO-US07283	W	20030321			

AB The invention provides a pharmaceutical composition and methods for treating psychosis comprising the combination or a first component which is an atypical antipsychotic with a second component which is a mGlu2/3 receptor agonist. The invention also provides a pharmaceutical composition and method of treating a psychiatric disorder comprising the combination of a first component which is an atypical antipsychotic with a second component which is a compound which allosterically enhances receptor activity for mGlu2 and/or mGlu3.

IT 611168-14-0, LY 404039

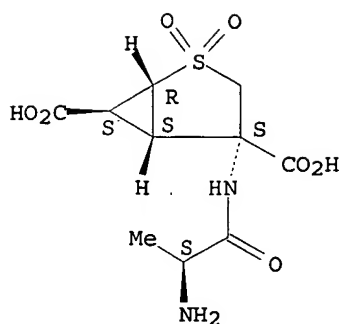
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(atypical antipsychotic-mGlu2/3 receptor agonist combination for
 treatment of psychoses and psychiatric disorders)

RN 611168-14-0 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-[[[(2S)-2-amino-1-oxopropyl]amino]-, 2,2-dioxide, (1R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 611168-14-0, LY 404039 611168-15-1 611168-20-8
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (atypical antipsychotic-mGlu2/3 receptor agonist combination for
 treatment of psychoses and psychiatric disorders)
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 2003:769630 HCAPLUS
 DN 140:246751
 TI Comparison of the effect of glutamate receptor modulators in the 6 Hz and
 maximal electroshock seizure models
 AU Barton, Matthew E.; Peters, Steven C.; Shannon, Harlan E.
 CS Lilly Research Laboratories, Neuroscience Research Division,
 Eli Lilly and Company, Indianapolis, IN, 46285, USA
 SO Epilepsy Research (2003), 56(1), 17-26
 CODEN: EPIRE8; ISSN: 0920-1211
 PB Elsevier Science B.V.
 DT Journal
 LA English
 AB Glutamatergic ionotropic and metabotropic receptor modulators have been
 shown to produce anticonvulsant activity in a number of animal seizure
 models, e.g. maximal electroshock (MES) and DBA/2 sensory-induced
 seizures. The 6 Hz model of partial seizures is an alternative low
 frequency, long duration stimulation paradigm resulting in a seizure
 characterized by jaw and forelimb clonus, immobility, and an elevated tail
 (Straub-tail). A unique aspect of this model is that it is the only acute
 elec.-induced seizure model in which levetiracetam has displayed
 anticonvulsant activity, suggesting that the 6 Hz seizure model may be
 useful in identifying compds. with unique anticonvulsant profiles. The
 purpose of the present study was to examine the role of glutamate
 receptors in the MES and 6 Hz seizure models using a number of NMDA, AMPA/KA,
 and mGlu receptor modulators. The pharmacol. profile of the 6 Hz seizure
 model was compared to that of the MES model using eight ionotropic
 glutamate receptor antagonists and eight mGlu receptor modulators. The
 ionotropic receptor antagonists MK-801, LY235959, NBQX, LY293558, GYKI
 52466, LY300168, and LY377770 produced complete protection from tonic
 extension in the MES model. Furthermore, the noncompetitive mGlu1
 (LY456236) and mGlu5 (MPEP) metabotropic receptor antagonists and the
 mGlu8 metabotropic receptor agonist (PPG) were also effective in the MES
 model whereas the competitive mGlu1 (LY367385) receptor antagonist, the
 mGlu2/3 (LY379268 and LY389795) and Group III (1-AP4) metabotropic
 receptor agonists were ineffective. In contrast, all of the compds.
 tested, produced dose-dependent protection in the 6 Hz model with an
 increase in potency as compared to the MES model. The largest protective
 indexes (P.I.=TD50/ED50) observed were associated with the iGlu5 antagonist
 LY382884 and the mGlu2/3 receptor agonists LY379268 and LY389795
 (P.I.=14, 14, and 4.9, resp.) in the 6 Hz model. The results from the
 present study support the continued search for glutamate receptor

modulators as potential antiepileptic agents. Furthermore these results illustrate the importance of using several different animal seizure models in the search for novel AEDs and the potential utility of the 6 Hz seizure model in identifying novel AEDs.

IT 222529-89-7, LY389795

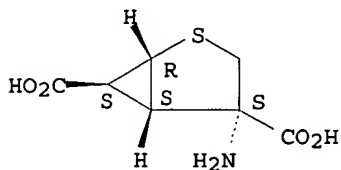
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(comparison of effect of glutamate receptor modulators in 6 Hz and maximal electroshock seizure models)

RN 222529-89-7 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-, (1R,4S,5S,6S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 222529-89-7, LY389795

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(comparison of effect of glutamate receptor modulators in 6 Hz and maximal electroshock seizure models)

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:531823 HCAPLUS

DN 137:232888

TI (2S,1'S,2'S,3'R)-2-(2'-Carboxy-3'-methylcyclopropyl)Glycine Is a Potent and Selective Metabotropic Group 2 Receptor Agonist with Anxiolytic Properties

AU Collado, Ivan; Pedregal, Concepcion; Mazon, Angel; Felix Espinosa, Juan; Blanco-Urgoiti, Jaime; Schoepp, Darryle D.; Wright, Rebecca A.; Johnson, Bryan G.; Kingston, Ann E.

CS Lilly SA, Madrid, 28108, Spain

SO Journal of Medicinal Chemistry (2002), 45(17), 3619-3629

CODEN: JMCMAR; ISSN: 0022-2623

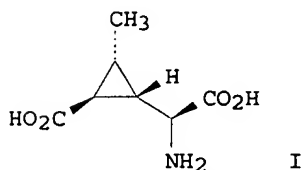
PB American Chemical Society

DT Journal

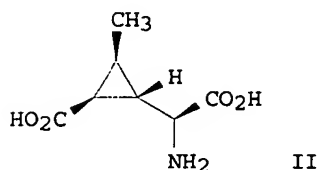
LA English

OS CASREACT 137:232888

GI



I



II

AB The asym. synthesis and biol. activity of (2S,1'S,2'S,3'R)-2-(2'-carboxy-3'-methylcyclopropyl)glycine I and its epimer II (at the C3' center) are described. I is a highly potent and selective agonist for group 2 metabotropic glutamate receptors (mGluRs). It is also systemically 4 orders of magnitude more active in the fear-potentiated startle model of

anxiety in rats than the rigid constrained bicyclic system LY354740. In summary, the authors have shown that high mol. complexity of conformationally constrained bicyclic systems is not a requirement to achieve highly selective and potent group 2 mGluRs agonists.

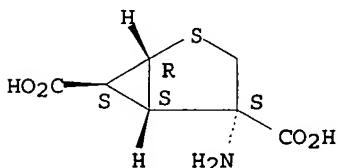
IT 222529-89-7, LY 389795

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(biol. activity comparisons of [(carboxy)(methyl)cyclopropyl]glycine with other selective agonists of metabotropic glutamate receptors)

RN 222529-89-7 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-, (1R,4S,5S,6S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 222529-89-7, LY 389795

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(biol. activity comparisons of [(carboxy)(methyl)cyclopropyl]glycine with other selective agonists of metabotropic glutamate receptors)

RE.CNT 80 THERE ARE 80 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:512140 HCAPLUS

DN 138:198422

TI Group II mGluR receptor agonists are effective in persistent and neuropathic pain models in rats

AU Simmons, Rosa Maria A.; Webster, Amy A.; Kalra, Anshu B.; Iyengar, Smriti

CS Eli Lilly and Company, Lilly Research Laboratories, Lilly Corporate Center, Indianapolis, IN, 46285, USA

SO Pharmacology, Biochemistry and Behavior (2002), 73(2), 419-427

CODEN: PBBHAU; ISSN: 0091-3057

PB Elsevier Science Inc.

DT Journal

LA English

AB The involvement of Group II metabotropic receptors in acute and persistent pain states was evaluated in several in vivo models of pain with selective and potent Group II metabotropic glutamate (mGlu) 2,3 agonists. LY354740, LY379268 and LY389795 attenuated late-phase paw-licking pain behavior in a dose-dependent manner in the formalin model of persistent pain. Effects occurred in the absence of overt neuromuscular deficits as measured by performance in the rotorod test for ataxia. The effects of LY354740 and LY379268 were also stereoselective. The order of potency of the agonists was LY389795>LY379268>LY354740. The attenuation of licking behavior by LY379268 (3 mg/kg) in the formalin model was reversed by a potent and selective mGlu2,3 receptor antagonist, LY341495 (1 mg/kg). In the L5/L6 spinal nerve ligation model of neuropathic pain in rats, LY379268 significantly reversed mech. allodynia behavior in a dose-related manner. In contrast, LY379268 had no significant effects on the tail flick test or paw withdrawal test of acute thermal nociceptive function. These results support the involvement of Group II mGlu2,3 receptors in persistent pain mechanisms and suggest the potential utility of selective Group II mGlu agonists for the treatment of persistent pain.

IT 222529-89-7, LY389795

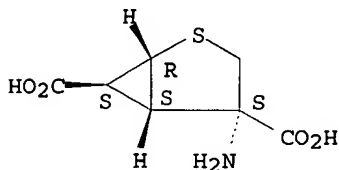
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(group II mGluR receptor agonists are effective in persistent and

neuropathic pain models in rats)

RN 222529-89-7 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-, (1R,4S,5S,6S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 222529-89-7, LY389795

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

(group II mGluR receptor agonists are effective in persistent and
neuropathic pain models in rats)

RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:741905 HCAPLUS

DN 133:305610

TI Treatment of neurological disorders with nitric oxide synthase inhibitors
and excitatory amino receptor modulators

IN O'Neill, Michael John

PA Eli Lilly and Company Limited, UK

SO PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2000061126	A2	20001019	2000WO-GB01284	20000406
	WO2000061126	A3	20010823		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI 1999GB-0008175 A 19990409

AB The present invention relates to a method of treating a neurol. disorder comprising administering to a patient an effective amount of a nitric oxide synthase inhibitor in combination with an effective amount of an excitatory amino receptor modulator. Combination of 2.5 mg/kg Mk-801, i.p., and 25 mg/kg ARL17477, i.p., had a synergistic degree of neuroprotection (78%) in cerebral ischemia induced in gerbils.

IT 222529-89-7, LY 389795

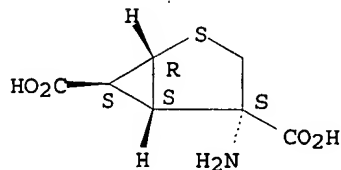
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(treatment of neurol. disorders with nitric oxide synthase inhibitors
and excitatory amino receptor modulators)

RN 222529-89-7 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-, (1R,4S,5S,6S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 222529-89-7, LY 389795

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(treatment of neurol. disorders with nitric oxide synthase inhibitors and excitatory amino receptor modulators)

L19 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:74530 HCAPLUS

DN 132:217391

TI Neuroprotective actions of novel and potent ligands of group I and group II metabotropic glutamate receptors

AU Kingston, A. E.; O'Neill, M. J.; Bond, A.; Bruno, V.; Battaglia, G.; Nicoletti, F.; Harris, J. R.; Clark, B. P.; Monn, J. A.; Lodge, D.; Schoepp, D. D.

CS Eli Lilly and Co. Ltd., Windlesham, Surrey, GU20 6PH, UK

SO Annals of the New York Academy of Sciences (1999), 890 (Neuroprotective Agents), 438-449

CODEN: ANYAA9; ISSN: 0077-8923

PB New York Academy of Sciences

DT Journal

LA English

AB The role of group I metabotropic glutamate (mGlu) receptors in neurodegeneration is controversial because of the contradictory effects of mGlu1/5 agonists in in vitro models of neuronal cell death. In this study, novel and selective antagonists of mGlu1 and mGlu5: LY367385 and LY367366 were found to show consistent neuroprotective effects against N-methyl-D-aspartate (NMDA)-induced excitotoxicity in vitro and in vivo. Furthermore, intraventricular administration of LY367385 reduced hippocampal cell death in gerbils subjected to transient global ischemia. Previous studies have also shown that activation of group II mGlu receptors may contribute to neuroprotective mechanisms in vitro and in vivo. Three potent group II mGlu agonists-LY354740, LY379268 and LY389795-were found to attenuate both NMDA excitotoxicity and staurosporine-induced neuronal cell death. LY354740 and LY379268 were protective against transient global ischemia in gerbils when dosed i.p. These results support the view that antagonists of mGlu1 and mGlu5 and agonists of group II mGlu receptors may be useful agents in the therapeutic treatment of neurodegenerative disease.

IT 222529-89-7, LY 389795

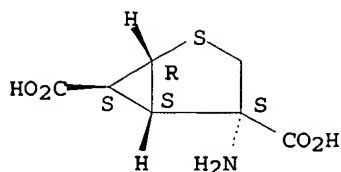
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(neuroprotective actions of novel and potent ligands of group I and group II metabotropic glutamate receptors)

RN 222529-89-7 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-, (1R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 222529-89-7, LY 389795

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(neuroprotective actions of novel and potent ligands of group I and group II metabotropic glutamate receptors)

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:546800 HCAPLUS

DN 131:281408

TI Neuroprotection by metabotropic glutamate receptor agonists: LY354740, LY379268 and LY389795

AU Kingston, Ann E.; O'Neill, Michael J.; Lam, Amy; Bales, Kelly R.; Monn, James A.; Schoepp, Darryle D.

CS Eli Lilly, Lilly Research Centre, Windleshanz, Surrey, GU20 6PH, UK

SO European Journal of Pharmacology (1999), 377(2/3), 155-165

CODEN: EJPHAZ; ISSN: 0014-2999

PB Elsevier Science B.V.

DT Journal

LA English

AB In rat cortical neuronal cultures, metabotropic glutamate (mGlu) receptor agonists: LY354740 (+)-2-aminobicyclo[3.1.0]hexane-2,6-dicarboxylate; LY379268 (-)-2-oxa-4-aminobicyclo[3.1.0]hexane-4,6-dicarboxylate, and LY389795 (-)-2-thia-4-aminobicyclo[3.1.0]hexane-4,6-dicarboxylate, were neuroprotective against toxicity induced by N-methyl-D-aspartic acid (NMDA), kainic acid and staurosporine as measured by release of lactate dehydrogenase (LDH) activity into culture supernatants and DNA fragmentation by oligonucleosome formation. The potencies of the agonists were at least 100 times greater in reducing nucleosome formation than LDH release indicating a differential effect on neurons dying by apoptosis than by necrosis. In vivo studies showed that LY354740 was able to mediate a partial protection against apoptosis in CA1 hippocampal cells under ischemic conditions where substantial CA1 cell loss occurred. The effects of the agonists in vitro were: (a) reversed by mGlu receptor antagonist LY341495, (b) enhanced by the presence of glial cells, (c) abrogated by RNA and protein synthesis inhibitors, and (d) unaltered by inhibition of endogenous adenosine activity. These results suggest that group II mGlu receptor agonists may represent a novel therapeutic strategy for the treatment of neurodegenerative diseases.

IT 222529-89-7, LY 389795

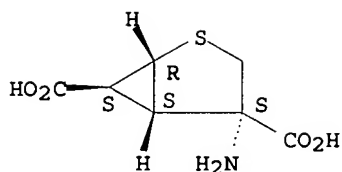
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(neuroprotection by metabotropic glutamate receptor agonists LY354740, LY379268 and LY389795)

RN 222529-89-7 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-, (1R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 222529-89-7, LY 389795

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(neuroprotection by metabotropic glutamate receptor agonists LY354740, LY379268 and LY389795)

RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:137687 HCAPLUS

DN 130:282320

TI Synthesis, Pharmacological Characterization, and Molecular Modeling of Heterobicyclic Amino Acids Related to (+)-2-Aminobicyclo[3.1.0]hexane-2,6-dicarboxylic Acid (LY354740): Identification of Two New Potent, Selective, and Systemically Active Agonists for Group II Metabotropic Glutamate Receptors

AU Monn, James A.; Valli, Matthew J.; Massey, Steven M.; Hansen, Marvin M.; Kress, Thomas J.; Wepsiec, James P.; Harkness, Allen R.; Grutsch, John L., Jr.; Wright, Rebecca A.; Johnson, Bryan G.; Andis, Sherri L.; Kingston, Ann; Tomlinson, Rosemarie; Lewis, Richard; Griffey, Kelly R.; Tizzano, Joseph P.; Schoepp, Darryle D.

CS Discovery Chemistry Process Research and Development Neuroscience and Toxicology Research Divisions, Eli Lilly and Company, Indianapolis, IN, 46285, USA

SO Journal of Medicinal Chemistry (1999), 42(6), 1027-1040
CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

AB As part of an ongoing research program aimed at the identification of highly potent, selective, and systemically active agonists for group II metabotropic glutamate (mGlu) receptors, novel heterobicyclic amino acids (-)-2-oxa-4-aminobicyclo[3.1.0]hexane-4,6-dicarboxylate (LY379268, I) and (-)-2-thia-4-aminobicyclo[3.1.0]hexane-4,6-dicarboxylate (LY389795, II) have been prepared. I and II are structurally related to the previously described nanomolar potency group II mGlu receptor agonist, (+)-2-aminobicyclo[3.1.0]hexane-2,6-dicarboxylate monohydrate (LY354740 monohydrate, III), with the C(4)-methylene unit of III being replaced with either an oxygen atom or a sulfur atom. I and II potently and stereospecifically displaced specific binding of the mGlu2/3 receptor antagonist ([3H]LY341495) in rat cerebral cortical homogenates, displaying IC50 values of 15 ± 4 and 8.4 ± 0.8 nM, resp., while having no effect up to 100,000 nM on radioligand binding to the glutamate recognition site on NMDA, AMPA, or kainate receptors. I and II also potently displaced [3H]LY341495 binding from membranes expressing recombinant human group II mGlu receptor subtypes: I Ki = 14.1 ± 1.4 nM at mGlu2 and 5.8 ± 0.64 nM at mGlu3; II Ki = 40.6 ± 3.7 nM at mGlu2 and 4.7 ± 1.2 nM at mGlu3. Evaluation of the functional effects of I and II on second-messenger responses in nonneuronal cells expressing human mGlu receptor subtypes demonstrated each to be a highly potent agonist for group II mGlu receptors: I EC50 = 2.69 ± 0.26 nM at mGlu2 and 4.58 ± 0.04 nM at mGlu3; II EC50 = 3.91 ± 0.81 nM at mGlu2 and 7.63 ± 2.08 nM at mGlu3. In contrast, neither compound (up to 10,000 nM) displayed either agonist or antagonist activity in cells expressing recombinant human mGlu1a, mGlu5a, mGlu4a, or mGlu7a receptors. The agonist effects of

I and II at group II mGlu receptors were not totally specific, however, as mGlu6 agonist activity was observed at high nanomolar concns. for I ($EC_{50} = 401 \pm 46$ nM) and at micromolar concns. ($EC_{50} = 2\,430 \pm 600$ nM) for II; furthermore, each activated mGlu8 receptors at micromolar concns. ($EC_{50} = 1\,690 \pm 130$ and $7\,340 \pm 2\,720$ nM, resp.). I.p. administration of either I or II in the mouse resulted in a dose-related blockade of limbic seizure activity produced by the nonselective group I/group II mGluR agonist (1S,3R)-ACPD (I $ED_{50} = 19$ mg/kg, II $ED_{50} = 14$ mg/kg), indicating that these mols. effectively cross the blood-brain barrier following systemic administration and suppress group I mGluR-mediated limbic excitation. Thus, I and II are novel pharmacol. tools useful for exploring the functions of mGlu receptors in vitro and in vivo.

IT 191471-53-1P

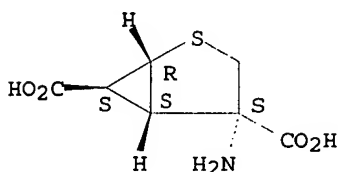
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of aminooxa- and -thiabicyclohexanedicarboxylates as group II metabotropic glutamate receptor agonists)

RN 191471-53-1 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-, (1R,4S,5S,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 191471-53-1P 222529-89-7P 222529-90-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of aminooxa- and -thiabicyclohexanedicarboxylates as group II metabotropic glutamate receptor agonists)

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:527203 HCAPLUS

DN 129:156945

TI Treatment for premenstrual dysphoric disorder

IN Levine, Louise R.

PA Eli Lilly and Company, USA

SO PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DT Patent

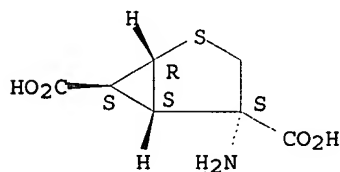
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO---9832436	A1	19980730	1998WO-US01344	19980123
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA---2275777	A1	19980730	1998CA-2275777	19980123

AU---9862487 A 19980818 1998AU-0062487 19980123
 EP---1014971 A1 20000705 1998EP-0904669 19980123
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI
 JP2001511131 T 20010807 1998JP-0532158 19980123
 PRAI 1997US-036176P P 19970129
 1998WO-US01344 W 19980123
 AB Agonists which act at neg.-coupled cAMP-linked metabotropic glutamate receptors are useful for treating premenstrual dysphoric disorder. An example compound which was synthesized is 1SR,4SR,5SR,6SR-4-amino-2-oxabicyclo[3.1.0]hexane-4,6-dicarboxylic acid.
 IT 191471-53-1P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (oxa- and thiabicyclohexanedicarboxylates for treatment of premenstrual dysphoric disorder)
 RN 191471-53-1 HCAPLUS
 CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-, (1R,4S,5S,6S)-rel- (9CI) (CA INDEX NAME)

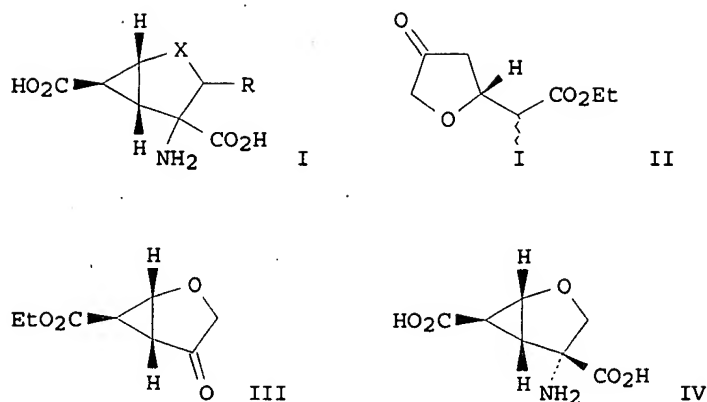
Relative stereochemistry.



IT 191471-53-1P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (oxa- and thiabicyclohexanedicarboxylates for treatment of premenstrual dysphoric disorder)
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1997:752747 HCAPLUS
 DN 127:359103
 TI Preparation of bicyclic excitatory amino acid derivatives
 IN Massey, Steven Marc; Monn, James Allen; Valli, Matthew John
 PA Eli Lilly and Co., USA
 SO U.S., 15 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US---5688826	A	19971118	1996US-0749140	19961114
PRAI	1996US-0749140		19961114		
OS	MARPAT 127:359103				
GI					



AB Title compds. I [X = O, NR₁, S, S(O), SO₂; R = H, C₁-6 alkyl, C₂-6 alkenyl, C₂-6 alkynyl, (un)substituted aromatic group, (un)substituted heteroarom. group, non-aromatic carbocyclic group, non-aromatic heterocyclic group, non-aromatic monocyclic carbocyclic group fused with 1-2 monocyclic aromatic or heteroarom. groups, non-aromatic monocyclic heterocyclic group fused with 1-2 monocyclic aromatic or heteroarom. groups, C₁-6 alkyl, C₂-6 alkenyl, C₂-6 alkynyl substituted by 0-3 (un)substituted aromatic groups, (un)substituted heteroarom. groups, non-aromatic carbocyclic groups, non-aromatic heterocyclic groups, non-aromatic monocyclic carbocyclic group fused with 1-2 monocyclic aromatic or heteroarom. groups, non-aromatic monocyclic heterocyclic group fused with 1-2 two monocyclic aromatic or heteroarom. groups; R₁ = H, (CO)nR; n = 0-1], non-toxic metabolically labile esters or amides thereof, and pharmaceutically acceptable salts thereof are useful as modulators of metabotropic glutamate receptor function. Thus, selective ketalization of (S)-(-)-1,2,4-butanetriol with acetone, followed by oxidation, Wittig olefination with (carboethoxymethylene)triphenylphosphorane, deprotection, iodolactonization, and oxidation gave tetrahydrofuranylacetate II. Treatment of II with DBU in EtOAc gave oxabicyclo[3.1.0]hexanonecarboxylate III, which was converted into title compound IV via spirohydantoin formation with (NH₄)₂CO₃ and KCN, followed by basic hydrolysis and saponification formulations containing I are also given.

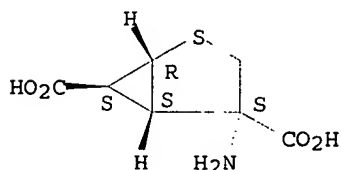
IT 191471-53-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of bicyclic excitatory amino acid derivs.)

RN 191471-53-1 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-,
(1R,4S,5S,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



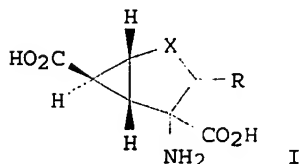
IT 191471-53-1P 191471-54-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of bicyclic excitatory amino acid derivs.)

L19 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1997:443241 HCAPLUS
 DN 127:66216
 TI Preparation of excitatory amino acid derivatives
 IN Monn, James Allen; Valli, Matthew John; Massey, Steven Marc
 PA Eli Lilly and Co., USA
 SO Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP----774461	A1	19970521	1996EP-0308216	19961114
	EP----774461	B1	20060308		
	R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	CA---2237910	A1	19970522	1996CA-2237910	19961112
	CA---2237910	C	20051227		
	WO---9718199	A1	19970522	1996WO-US18112	19961112
	W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN				
	RW: KE, LS, MW, SD, SZ, UG, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU---9677279	A	19970605	1996AU-0077279	19961112
	AU---703409	B2	19990325		
	ZA---9609486	A	19980512	1996ZA-0009486	19961112
	CN---1202167	A	19981216	1996CN-0198396	19961112
	BR---9611511	A	19990504	1996BR-0011511	19961112
	JP2000500748	T	20000125	1997JP-0518993	19961112
	IL---124487	A	20010111	1996IL-0124487	19961112
	HU---9903459	A2	20010428	1999HU-0003459	19961112
	HU---9903459	A3	20010828		
	TW---422836	B	20010221	TW 1996-85113881	19961113
	AT---319685	T	20060315	1996AT-0308216	19961114
	ES---2258771	T3	20060901	1996ES-0308216	19961114
	NO---9802202	A	19980514	1998NO-0002202	19980514
PRAI	1995US-006864P	P	19951116		
	1996GB-0005434	A	19960315		
	1996WO-US18112	W	19961112		
OS	MARPAT 127:66216				
GI					



AB Bicyclic amino acids I [X = O, NH, NR, NCOR, S, SO, SO₂; R = H or (un)substituted alkyl, alkenyl, alkynyl, aryl, carbocyclyl, heterocyclyl] or their pharmaceutically acceptable salts were prepared for use as modulators of metabotropic glutamate receptor function. Thus, 1SR,4SR,5RS,6SR-4-amino-2-oxabicyclo[3.1.0]hexane-4,6-dicarboxylic acid was prepared in several steps from 1,2,4-butanetriol and (carbethoxymethylene)triphenylphosphorane. Formulations containing I are described.

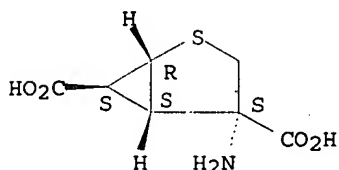
IT 191471-53-1P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(excitatory amino acid derivs.)

RN 191471-53-1 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-amino-,
(1R,4S,5S,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 191471-53-1P 191471-54-2P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(excitatory amino acid derivs.)

=> d bib abs hitstr l32

L32 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:991499 HCAPLUS

DN 140:42463

TI Preparation of prodrugs of excitatory amino acids

IN Moher, Eric David; Monn, James Allen; Pedregal-Tercero, Concepcion

PA Eli Lilly and Company, USA; Collado, Cano Ivan; Blanco-Urgoiti, Jamie Gonzalo

SO PCT Int. Appl., 172 pp.

CODEN: PIXXD2

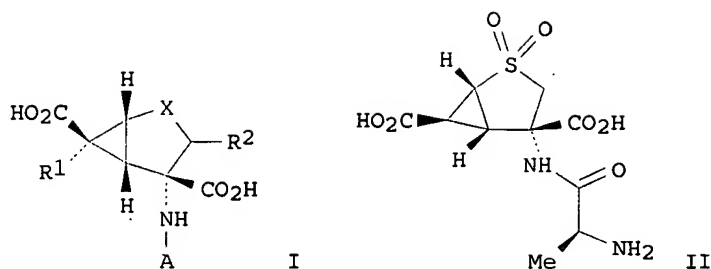
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2003104217	A2	20031218	2003WO-US15405	20030606
	WO2003104217	A3	20040226		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA---	2488167	A1	20031218	2003CA-2488167	20030606
AU	2003232146	A1	20031222	2003AU-0232146	20030606
EP---	1517915	A2	20050330	2003EP-0757266	20030606
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP	2006503807	T	20060202	2004JP-0511287	20030606
US	2005222231	A1	20051006	2004US-0516559	20041130
IN	2004KN01838	A	20060721	2004IN-KN01838	20041202
NO	2005000122	A	20050110	2005NO-0000122	20050110
PRAI	2002EP-0380120	A	20020611		
	2002EP-0380121	A	20020611		
	2002US-415936P	P	20021003		
	2002US-415937P	P	20021003		
	2003WO-US15405	W	20030606		

OS MARPAT 140:42463
GI



AB The invention relates to synthetic excitatory amino acid prodrugs for the treatment of neurol. disorders and psychiatric disorders. Bicyclic amino acids I [A is H-Q1-10, where Q is aminoacyl; X is O, S, SO, SO₂, or substituted methylene; R₁ is H or F; R₂ is H, F, or OH] or their pharmaceutically-acceptable salts are claimed. Thus, prodrug II.HCl was prepared via peptide coupling reaction and shown to exhibit comparable concentration in rat plasma to that of the non-prodrug form.

IT 635318-26-2P 635318-55-7P 635318-56-8P
635318-57-9P

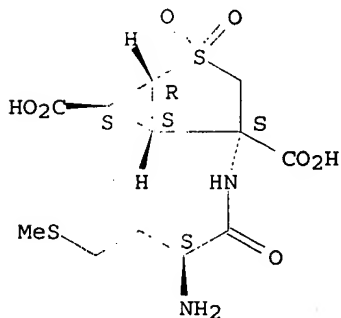
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of prodrugs of excitatory amino acids)

RN 635318-26-2 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-[[[(2S)-2-amino-4-(methylthio)-1-oxobutyl]amino]-, 2,2-dioxide, monohydrochloride, (1R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

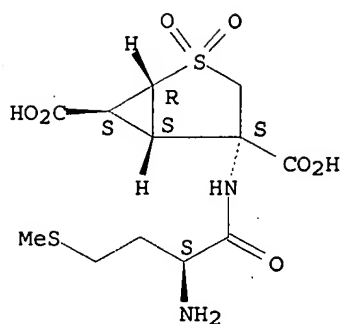


● HCl

RN 635318-55-7 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-[[[(2S)-2-amino-4-(methylthio)-1-oxobutyl]amino]-, 2,2-dioxide, (1R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



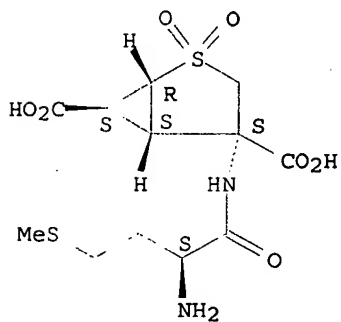
RN 635318-56-8 HCAPLUS
 CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-[[[(2S)-2-amino-4-(methylthio)-1-oxobutyl]amino]-, 2,2-dioxide, (1R,4S,5S,6S)-, mono(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CM 1

CRN 635318-55-7

CMF C12 H18 N2 O7 S2

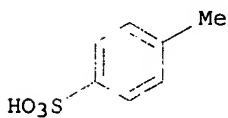
Absolute stereochemistry. Rotation (+).



CM 2

CRN 104-15-4

CMF C7 H8 O3 S



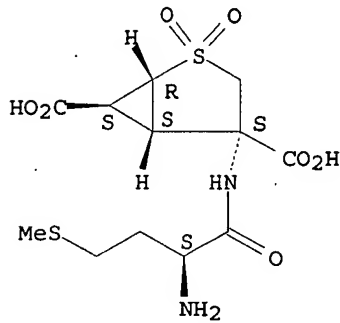
RN 635318-57-9 HCAPLUS
 CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-[[[(2S)-2-amino-4-(methylthio)-1-oxobutyl]amino]-, 2,2-dioxide, (1R,4S,5S,6S)-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 635318-55-7

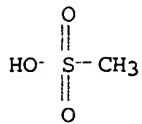
CMF C12 H18 N2 O7 S2

Absolute stereochemistry. Rotation (+).



CM 2

CRN 75-75-2
CMF C H4 O3 S



=> d bib abs hitstr l29 tot

L29 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:818322 HCAPLUS
DN 139:302068
TI Therapy for psychoses combining an atypical antipsychotic and an mGlu2/3
receptor agonist
IN Johnson, Bryan Glenn; Schoepp, Darryle Darwin
PA Eli Lilly and Company, USA
SO PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2003084610	A1	20031016	2003WO-US07283	20030321
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,				
TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA---2478227	A1	20031016	2003CA-2478227	20030321
AU2003218063	A1	20031020	2003AU-0218063	20030321
EP---1492595	A1	20050105	2003EP-0714045	20030321
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

	JP2005528378	T	20050922	2003JP-0581846	20030321
	US2005192273	A1	20050901	2004US-0509772	20040928
PRAI	2002US-369771P	P	20020403		
	2002US-369797P	P	20020403		
	2003WO-US07283	W	20030321		

AB The invention provides a pharmaceutical composition and methods for treating psychosis comprising the combination or a first component which is an atypical antipsychotic with a second component which is a mGlu2/3 receptor agonist. The invention also provides a pharmaceutical composition and method of treating a psychiatric disorder comprising the combination of a first component which is an atypical antipsychotic with a second component which is a compound which allosterically enhances receptor activity for mGlu2 and/or mGlu3.

IT 611168-14-0, LY 404039

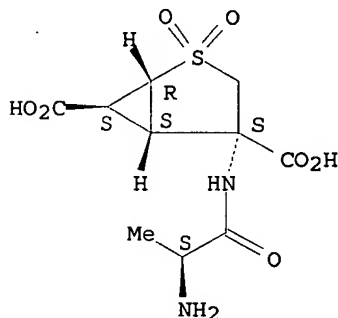
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(atypical antipsychotic-mGlu2/3 receptor agonist combination for treatment of psychoses and psychiatric disorders)

RN 611168-14-0 HCAPLUS

CN 2-Thiabicyclo[3.1.0]hexane-4,6-dicarboxylic acid, 4-[[[(2S)-2-amino-1-oxopropyl]amino]-, 2,2-dioxide, (1R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> b wpix

FILE 'WPIX' ENTERED AT 13:24:14 ON 22 MAR 2007

COPYRIGHT (C) 2007 THE THOMSON CORPORATION

FILE LAST UPDATED: 19 MAR 2007 <20070319/UP>

MOST RECENT THOMSON SCIENTIFIC UPDATE: 200719 <200719/DW>

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> New reloaded DWPI Learn File (LWPI) available as well <<<

>>> YOU ARE IN THE NEW AND ENHANCED DERWENT WORLD PATENTS INDEX <<<

>>> New display format FRAGHITSTR available <<<

SEE ONLINE NEWS and

http://www.stn-international.de/archive/stn_online_news/fraghitstr_ex.pdf

>>> IPC Reform backfile reclassification has been loaded to 31 December 2006. No update date (UP) has been created for the reclassified documents, but they can be identified by 20060101/UPIC and 20061231/UPIC. <<<

FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
PLEASE VISIT:

http://www.stn-international.de/training_center/patents/stn_guide.pdf

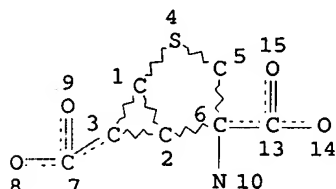
FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
<http://scientific.thomson.com/support/patents/coverage/latestupdates/>

PLEASE BE AWARE OF THE NEW IPC REFORM IN 2006, SEE
http://www.stn-international.de/stndatabases/details/ipc_reform.html and
<http://scientific.thomson.com/media/scpdf/ipcrdwpi.pdf>

>>> FOR DETAILS ON THE NEW AND ENHANCED DERWENT WORLD PATENTS INDEX
 PLEASE SEE

[<<< http://www.stn-international.de/stndatabases/details/dwpi_r.html](http://www.stn-international.de/stndatabases/details/dwpi_r.html)
 'BI BIEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

=> d que sta 143
 L7 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
 L43 4 SEA FILE=WPIX SSS FUL L7

100.0% PROCESSED 5 ITERATIONS 4 ANSWERS
 SEARCH TIME: 00.00.01

=> d max 146

L46 ANSWER 1 OF 1 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN
 AN 2004-098898 [10] WPIX
 ED 20050528
 DNC C2004-040767 [10]
 TI New amino acid prodrugs useful for treating e.g. psychiatric disorder and
 neurological disorder e.g. Tourette's syndrome, tardive dyskinesia,
 schizophrenia and anxiety
 DC B03; B05; P34
 IN BLANCO-URGOITI J G; BROOME T E; LADUCA P; MOHER E D; MONN J A;
 PEDREGAL-TERCERO C; SALAHIEH A; SCHULTZ M; BLANCO-URGIOTI J G; COLLADO
 CANO I
 PA (BROO-I) BROOME T E; (LADU-I) LADUCA P; (ELIL-C) LILLY & CO ELI; (SALA-I)
 SALAHIEH A; (SCHU-I) SCHULTZ M
 CYC 103
 PI WO--2003104217 A2 20031218 (200410)* EN 172[0]
 US-20040127936 A1 20040701 (200444) EN
 AU--2003232146 A1 20031222 (200445) EN
 EP-----1517915 A2 20050330 (200522) EN
 NO---200500122 A 20050110 (200523) NO C07K-005/06
 KR--2005009742 A 20050125 (200535) KO C07D-333/78
 US-2005022231 A1 20051006 (200566) EN

TW---200400815 A 20040116 (200567) ZH A61K-031/195
 MX--2004012518 A1 20050301 (200568) ES
 JP--2006503807 W 20060202 (200611) JA 115
 IN---200401838 P2 20060721 (200656) EN
 ZA---200409553 A 20060927 (200669) EN 183 C07K-000/00
 ADT WO--2003104217 A2 2003WO-US0015405 20030606; US-20040127936 A1
 Provisional 2002US-000415936P 20021003; US-20050222231 A1 Provisional
 2002US-000415936P 20021003; US-20050222231 A1 Provisional
 2002US-000415937P 20021003; TW--200400815 A 2003TW-000114268 20030527;
 AU--2003232146 A1 2003AU-000232146 20030606; EP-----1517915 A2
 2003EP-000757266 20030606; EP-----1517915 A2 2003WO-US0015405 20030606;
 NO---200500122 A 2003WO-US0015405 20030606; US-20050222231 A1
 2003WO-US0015405 20030606; MX--2004012518 A1 2003WO-US0015405 20030606;
 JP--2006503807 W 2003WO-US0015405 20030606; IN--200401838 P2
 2003WO-US0015405 20030606; US-20040127936 A1 2003US-000677716 20031002;
 JP--2006503807 W 2004JP-000511287 20030606; US-20050222231 A1
 2004US-000516559 20041130; IN--200401838 P2 2004IN-KOLNP1838 20041202;
 KR--2005009742 A 2004KR-000720013 20041209; MX--2004012518 A1
 2004MX-000012518 20041210; NO--200500122 A 2005NO-000000122 20050110;
 ZA---200409553 A 2004ZA-000009553 20041125
 FDT AU--2003232146 A1 Based on WO--2003104217 A; EP-----1517915 A2 Based on
 WO--2003104217 A; MX--2004012518 A1 Based on WO--2003104217 A;
 JP--2006503807 W Based on WO--2003104217 A
 PRAI 2002US-000415937P 20021003
 2002EP-000380120 20020611
 2002EP-000380121 20020611
 2002US-000415936P 20021003
 2003US-000677716 20031002
 IC ICM A61K-031/195; C07D-333/00; C07D-333/78; C07K-07D/; C07K-005/06
 ICS A61K-07K/; C07C-229/00; C07D-333/48
 IPCI A61K-0038/00 [I,A]; A61P-0001/00 [I,C]; A61P-0001/08 [I,A]; A61P-0013/00
 [I,C]; A61P-0013/02 [I,A]; A61P-0019/00 [I,A]; A61P-0021/00 [I,A];
 A61P-0021/04 [I,A]; A61P-0025/00 [I,A]; A61P-0025/06 [I,A]; A61P-0025/08
 [I,A]; A61P-0025/14 [I,A]; A61P-0025/16 [I,A]; A61P-0025/18 [I,A];
 A61P-0025/20 [I,A]; A61P-0025/22 [I,A]; A61P-0025/24 [I,A]; A61P-0025/28
 [I,A]; A61P-0025/30 [I,A]; A61P-0025/34 [I,A]; A61P-0027/00 [I,C];
 A61P-0027/02 [I,A]; A61P-0029/00 [I,A]; A61P-0003/00 [I,C]; A61P-0003/10
 [I,A]; A61P-0031/00 [I,C]; A61P-0031/18 [I,A]; A61P-0043/00 [I,A];
 A61P-0009/00 [I,C]; A61P-0009/10 [I,A]; C07K-0005/00 [I,C]; C07K-0005/06
 [I,A]
 IPCR A61B-0017/22 [I,A]; A61B-0017/22 [I,C]; A61K-0031/557 [I,C]; A61K-0031/558
 [I,A]; A61K-0038/00 [N,A]; A61K-0038/00 [N,C]; A61K-0038/05 [I,A];
 A61K-0038/05 [I,C]; A61M-0029/00 [I,A]; A61M-0029/00 [I,C]; C07D-0333/00
 [I,C]; C07D-0333/72 [I,A]; C07D-0409/00 [I,C]; C07D-0409/02 [I,A];
 C07K-0005/00 [I,C]; C07K-0005/06 [I,A]; C07K-0005/062 [I,A]; C07K-0005/065
 [I,A]; C07K-0005/068 [I,A]
 AB WO 2003104217 A2 UPAB: 20060121
 NOVELTY - Amino acid prodrugs or their salts are new.
 DETAILED DESCRIPTION - Amino acid prodrugs of formula (I) or its
 salts are new.
 A = H-(Q)p-;
 Q = amino acyl;
 p = 1 - 10;
 X = O, S, SO, SO2 or CR3R4;
 R3 = F, X'OR5, SO3H, tetrazol-5-yl, CN, PO3(R6)2, OH, NO2, N3,
 (CH2)mCOOR5a, (CH2)mPO3(R6a)2, NHCONHR5b, NHSO2R5c, amino or carboxyl;
 R4 = H, F, amino or carboxyl;
 R3+R4 = =O, =NOR7, =CR8R9, =CHCOOR5b, =CHPO3(R6a)2, or =CHCN;
 X' = a bond, CH2 or CO;
 m = 1 - 3;
 R5, R5a, R5b, R5c and R7 - R9 = 1-6C alkyl, 2-6C alkenyl, 2-6C
 alkynyl, aromatic group, or heteroaromatic group (all optionally
 substituted), H, non-aromatic carbocyclic group, non-aromatic heterocyclic
 group, non-aromatic monocyclic carbocyclic group or non-aromatic
 monocyclic heterocyclic group (both fused with at least one monocyclic
 aromatic or heteroaromatic groups);

R6 and R6a = H or 1-6C alkyl;

R10 = H or F; and

R11 = H, F or OH.

One of R3 or R4 is amino and the other is carboxyl.

An INDEPENDENT CLAIM is included for the preparation of (I).

ACTIVITY - Neuroprotective; Cardiant; Vasotropic; Vulnerary; Cerebroprotective; Tranquilizer; Immunosuppressive; Nootropic; Anticonvulsant; Anti-HIV; Respiratory-Gen.; Antidiabetic; Ophthalmological; Antiparkinsonian; Antimigraine; Analgesic; Uropathic; Antiaddictive; Antismoking; Antiemetic; Antiinflammatory; Hypnotic; Neuroleptic; Muscular-Gen.; Antidepressant.

MECHANISM OF ACTION - mGluR2 receptor agonist. The ability of (I) to determine the mGluR2 receptor agonist activity was determined using CHO cells over-expressing the hPepT1 transporter and the EC50 value was found to be less than 5 mM. No specific results for specific compounds given.

USE - For affecting the cAMP-linked metabotropic glutamate receptor for modulated excitatory amino acid neurotransmission; and for treating neurological disorder (e.g. cerebral deficits subsequent to cardiac bypass and grafting, cerebral ischemia, spinal cord trauma, head trauma, Alzheimer's Disease, Huntington's Chorea, amyotrophic lateral sclerosis, AIDS-induced dementia, perinatal hypoxia, hypoglycemic neuronal damage, ocular damage and retinopathy, cognitive disorders, idiopathic and drug-induced Parkinson's Disease, muscular spasms, migraine headaches, urinary incontinence, drug tolerance, withdrawal, cessation, and craving, smoking cessation, emesis, brain edema, chronic pain, sleep disorders, convulsions, Tourette's syndrome, attention deficit disorder, and tardive dyskinesia) and psychiatric disorder (e.g. schizophrenia, anxiety and related disorders, depression, bipolar disorders, psychosis, and obsessive compulsive disorders) (all claimed).

ADVANTAGE - The compound maintains the safety and efficacy of prior art compound with increased oral bioavailability.

TECH ORGANIC CHEMISTRY - Preparation (claimed): Preparation of (I) involves: acylating a protected amino acid compounds of formula (i) with a amino acyl of formula PgN-A (ii). The protecting group is removed, when functional group is protected using a protecting group. The method optionally further involves either:

- (1) reacting the basic form of (I) with an acid having a counterion;
- (2) for (I) (having an acidic moiety), reacting the acidic form of (I) with a base having a cation; or
- (3) for (I) (zwitterionic compound), neutralizing the acid-addition salt form or base-addition salt of (I).

Pgc = protecting group; and

PgN = nitrogen-protecting group.

ABEX DEFINITIONS - Preferred Definitions: - Q = L-alanyl; - p = 1; - X = SO2 or CR3R4; - R3 = F; - R4, R10 and R11 = H; and - R3+R4 = =O.

ADMINISTRATION - The dosage is 25 - 300 mg and administered orally.

SPECIFIC COMPOUNDS - 14 Compounds are specifically claimed as (I), e.g. (1R,4S,5S,6S)-4-(2'S-aminopropionylamino)-2,2-dioxo-2lambda6-thia-bicyclo(3.1.0)hexane-4,6-dicarboxylic acid hydrochloride.

EXAMPLE - To a suspension of (1R,4S,5S,6S)-4-(2'S-tert-butoxycarbonylamino)propionylamino)-2,2-dioxo-2lambda6-thia-bicyclo(3.1.0)hexane-4,6-dicarboxylic acid (110 g) in ethyl acetate (563 ml) was added a solution of hydrogen chloride in ethyl acetate (514 ml) over 20 minutes. After work up (1R,4S,5S,6S)-4-(2'S-aminopropionylamino)-2,2-dioxo-2lambda6-thia-bicyclo(3.1.0)hexane-4,6-dicarboxylic acid hydrochloride (85.77 g; yield 92%) was obtained.

IT UPIT 20060121

835433-CL 835433-NEW 835433-PRD 835433-ST; 835437-CL 835437-NEW 835437-PRD 835437-ST; 835442-CL 835442-NEW 835442-PRD; 835444-CL 835444-NEW 835444-PRD 835444-ST; 835448-CL 835448-NEW 835448-PRD 835448-ST; 835449-CL 835449-NEW 835449-PRD 835449-ST; 835454-CL 835454-NEW 835454-PRD 835454-ST; 835458-CL 835458-NEW 835458-PRD 835458-ST; 835460-CL 835460-NEW 835460-PRD 835460-ST; 835466-CL 835466-NEW 835466-PRD 835466-ST; 835468-CL 835468-NEW 835468-PRD 835468-ST; 0118-91301-CL 0118-91301-NEW 0118-91301-PRD 0118-91301-ST

FS CPI; GMPI

MC CPI: B06-A02; B06-B01; B10-B01B; B10-B02B; B14-C01; B14-E05; B14-F02D1;
 B14-J01A3; B14-J01A4; B14-J01B1; B14-J01B3; B14-J01B4; B14-J05D;
 B14-J07; B14-K01; B14-L01; B14-M01B; B14-N03; B14-N07D; B14-N16

CMC UPB 20060121

M2 *01* C017 C100 C101 C800 C801 C804 C805 C806 C807 G031 G034 G038 G060
 G600 H1 H100 H181 H6 H601 H661 J0 J013 J1 J152 J3 J361 M280 M312
 M321 M331 M340 M342 M349 M381 M391 M411 M510 M520 M530 M541 M640
 M710 M720 N209 N231 N233 N241 N242 N261 N309 N333 N362 N512 P411
 P442 P443 P444 P445 P446 P448 P510 P528 P642 P820 P922 M905
 M904
 RIN: 00695
 DCN: RACVRO-N RACVRO-P RACVRO-T
 DCR: 835433-N 835433-P 835433-T

M2 *02* G031 G034 G038 G060 G600 H100 H181 H601 H661 J013 J152 J361 K431
 K432 M210 M211 M271 M280 M281 M312 M320 M321 M331 M340 M342 M349
 M381 M391 M415 M510 M520 M530 M541 M620 M650 M710 M720 N209 N231
 N233 N241 N242 N261 N309 N333 N362 N512 P411 P442 P443 P444 P445
 P446 P448 P510 P528 P642 P820 P922 M905 M904
 RIN: 00695
 DCN: RACVRS-N RACVRS-P RACVRS-T
 DCR: 835437-N 835437-P 835437-T

M2 *03* G031 G034 G038 G060 G600 H100 H181 H601 H661 J013 J152 J361 K431
 K432 M210 M212 M271 M280 M281 M312 M320 M321 M331 M340 M342 M349
 M381 M391 M415 M510 M520 M530 M541 M620 M650 M710 M720 N209 N231
 N233 N241 N242 N261 N309 N333 N362 N512 P411 P442 P443 P444 P445
 P446 P448 P510 P528 P642 P820 P922 M905 M904
 RIN: 00695
 DCN: RACVRX-N RACVRX-P RACVRX-T
 DCR: 835442-N 835442-P 835442-T

M2 *04* G013 G031 G034 G038 G060 G100 G600 H100 H181 H601 H661 J013 J152
 J361 K431 K432 M210 M211 M240 M280 M281 M312 M320 M321 M331 M340
 M342 M349 M381 M391 M414 M510 M520 M530 M531 M540 M541 M650 M710
 M720 N209 N231 N233 N241 N242 N261 N309 N333 N362 N512 P411 P442
 P443 P444 P445 P446 P448 P510 P528 P642 P820 P922 M905 M904
 RIN: 00695
 DCN: RACVRZ-N RACVRZ-P RACVRZ-T
 DCR: 835444-N 835444-P 835444-T

M2 *05* G031 G034 G038 G060 G600 H1 H100 H181 H6 H601 H661 J0 J013 J1
 J152 J3 J361 M280 M312 M321 M331 M340 M342 M349 M381 M391 M415
 M510 M520 M530 M541 M710 M720 N209 N231 N233 N241 N242 N261 N309
 N333 N362 N512 P411 P442 P443 P444 P445 P446 P448 P510 P528 P642
 P820 P922 M905 M904
 RIN: 00695
 DCN: RACVS3-N RACVS3-P RACVS3-T
 DCR: 835448-N 835448-P 835448-T

M2 *06* A111 A960 C710 G031 G034 G038 G060 G600 H1 H100 H181 H6 H601
 H661 J0 J013 J1 J152 J3 J361 M280 M312 M321 M331 M340 M342 M349
 M381 M391 M411 M510 M520 M530 M541 M630 M710 M720 N209 N231 N233
 N241 N242 N261 N309 N333 N362 N512 P411 P442 P443 P444 P445 P446
 P448 P510 P528 P642 P820 P922 M905 M904
 RIN: 00695
 DCN: RACVS4-N RACVS4-P RACVS4-T
 DCR: 835449-N 835449-P 835449-T

M2 *07* G010 G031 G034 G038 G060 G100 G600 H100 H181 H601 H661 J013 J152
 J361 K431 K432 M280 M312 M320 M321 M331 M340 M342 M349 M381 M391
 M414 M510 M520 M530 M531 M540 M541 M650 M710 M720 N209 N231 N233
 N241 N242 N261 N309 N333 N362 N512 P411 P442 P443 P444 P445 P446
 P448 P510 P528 P642 P820 P922 M905 M904
 RIN: 00695
 DCN: RACVS9-N RACVS9-P RACVS9-T
 DCR: 835454-N 835454-P 835454-T

M2 *08* C017 C100 C101 C316 C800 C801 C804 C805 C806 C807 D013 D016 D019
 D021 D030 D330 H1 H100 H181 J0 J013 J1 J111 J151 J3 J321 K0 K4
 K441 M280 M312 M321 M332 M342 M381 M391 M411 M511 M520 M530 M540
 M640 M710 M720 N209 N231 N233 N241 N242 N261 N309 N333 N362 N512
 P411 P442 P443 P444 P445 P446 P448 P510 P528 P642 P820 P922

M905 M904
 RIN: 00693
 DCN: RACVSD-N RACVSD-P RACVSD-T
 DCR: 835458-N 835458-P 835458-T
 M2 *09* C316 D013 D016 D019 D021 D030 D330 G013 G100 H100 H181 J013 J111
 J151 J321 K0 K4 K431 K432 K441 M210 M211 M240 M280 M281 M312
 M320 M321 M331 M340 M342 M349 M381 M391 M412 M510 M511 M520 M530
 M531 M540 M650 M710 M720 N209 N231 N233 N241 N242 N261 N309 N333
 N362 N512 P411 P442 P443 P444 P445 P446 P448 P510 P528 P642 P820
 P922 M905 M904
 RIN: 00693
 DCN: RACVSF-N RACVSF-P RACVSF-T
 DCR: 835460-N 835460-P 835460-T
 M2 *10* C316 D013 D016 D019 D021 D030 D330 H1 H100 H181 H5 H598 H9 J0
 J013 J1 J111 J151 J3 J321 K0 K4 K441 M210 M211 M271 M281 M313
 M321 M332 M343 M349 M381 M391 M412 M511 M520 M530 M540 M710 M720
 N209 N231 N233 N241 N242 N261 N309 N333 N362 N512 P411 P442 P443
 P444 P445 P446 P448 P510 P528 P642 P820 P922 M905 M904
 RIN: 00693
 DCN: RACVSK-N RACVSK-P RACVSK-T
 DCR: 835466-N 835466-P 835466-T
 M2 *11* C017 C100 C101 C800 C801 C804 C805 C806 C807 G031 G034 G038 G060
 G600 H1 H100 H181 H4 H401 H461 H8 J0 J013 J1 J152 J3 J361 M280
 M312 M321 M332 M342 M381 M391 M411 M510 M520 M530 M541 M640 M710
 M720 N209 N231 N233 N241 N242 N261 N309 N333 N362 N512 P411 P442
 P443 P444 P445 P446 P448 P510 P528 P642 P820 P922 M905 M904
 RIN: 00695
 DCN: RACVSM-N RACVSM-P RACVSM-T
 DCR: 835468-N 835468-P 835468-T
 M2 *12* B515 B615 B701 B712 B720 B741 B815 B831 C216 C316 D011 D013 D014
 D016 D019 D021 D026 D130 D330 F010 F015 F019 F020 F021 F029 F570
 G001 G002 G010 G011 G012 G013 G019 G020 G021 G022 G029 G030 G031
 G032 G034 G036 G038 G039 G040 G050 G051 G111 G112 G221 G299 G551
 G552 G553 G561 G562 G563 G600 H1 H100 H102 H121 H161 H162 H361
 H401 H402 H421 H461 H462 H481 H521 H541 H561 H581 H601 H608 H609
 H621 H661 H662 H663 H713 H716 H720 H721 H722 H731 J0 J012 J013
 J1 J111 J151 J152 J153 J171 J221 J241 J251 J261 J271 J5 J561
 J581 K353 K431 K432 K441 K510 K840 L144 L145 L432 L722 M116 M121
 M122 M123 M124 M125 M126 M129 M132 M136 M137 M141 M147 M150 M210
 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223 M224 M225 M226
 M231 M232 M233 M262 M271 M272 M273 M280 M281 M282 M311 M312 M313
 M314 M315 M316 M321 M322 M331 M332 M333 M340 M341 M342 M343 M344
 M349 M351 M372 M373 M381 M391 M411 M412 M413 M414 M415 M510 M511
 M520 M521 M522 M530 M531 M532 M540 M541 M542 M543 M710 M720 N209
 N231 N233 N241 N242 N261 N309 N333 N362 N512 P411 P442 P443 P444
 P445 P446 P448 P510 P528 P642 P820 P922 M905 M904
 RIN: 00061 00693 00695 07855
 MCN: 0118-91301-N 0118-91301-P 0118-91301-T

=> b beilstein

FILE 'BEILSTEIN' ENTERED AT 13:24:50 ON 22 MAR 2007

COPYRIGHT (c) 2007 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften
 licensed to Beilstein GmbH and MDL Information Systems GmbH

FILE LAST UPDATED ON JANUARY 10, 2007

FILE COVERS 1771 TO 2006.

*** FILE CONTAINS 9,780,003 SUBSTANCES ***

>>>PLEASE NOTE: Reaction Data and substance data are stored in
 separate documents and can not be searched together in one query.
 Reaction data for BEILSTEIN compounds may be displayed
 immediately with the display codes PRE (preparations) and REA
 (reactions). A substance answer set retrieved after the search
 for a chemical name, a compounds with available reaction

information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

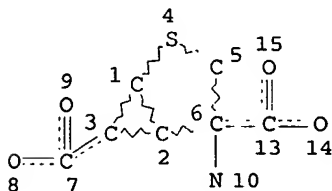
>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

 * PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST. *
 * SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE *
 * ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE *
 * ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. *
 * FOR PRICE INFORMATION SEE HELP COST *

NEW

* PATENT NUMBERS (PN) AND BABS ACCESSION NUMBERS (BABSAN) CAN NOW BE SEARCHED, SELECTED AND TRANSFERRED.
 * NEW DISPLAY FORMATS ALLREF, ALLP AND BABSAN SHOW ALL REFERENCES, ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A COMPOUND AT A GLANCE.

=> d que sta l39
 L7 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
 L39 4 SEA FILE=BEILSTEIN SSS FUL L7

100.0% PROCESSED 4 ITERATIONS 4 ANSWERS
 SEARCH TIME: 00.00.02

=> b marpat
 FILE 'MARPAT' ENTERED AT 13:24:57 ON 22 MAR 2007
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2007 American Chemical Society (ACS)

FILE CONTENT: 1961-PRESENT VOL 146 ISS 12 (20070316/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

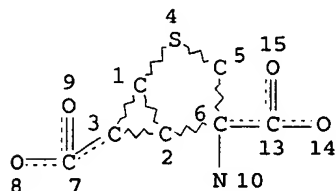
MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
 (COVERAGE TO THESE DATES IS NOT COMPLETE):

US 2007021624 25 JAN 2007
 DE 102005037076 25 JAN 2007
 EP 1746674 24 JAN 2007

JP 2007019376 25 JAN 2007
 WO 2007017126 15 FEB 2007
 GB 2427406 27 DEC 2006
 FR 2888846 26 JAN 2007
 RU 2292368 27 JAN 2007
 CA 2552059 19 JAN 2007

Expanded G-group definition display now available.

=> d que sta l41
 L7 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
 L41 6 SEA FILE=MARPAT SSS FUL L7

100.0% PROCESSED 5941 ITERATIONS
 SEARCH TIME: 00.00.04

6 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 11:10:12 ON 22 MAR 2007)

FILE 'HCAPLUS' ENTERED AT 11:10:23 ON 22 MAR 2007
 L1 1 US2005022231/PN OR (US2004-516559 OR EP2002-380121 OR EP2002-3

FILE 'REGISTRY' ENTERED AT 11:12:32 ON 22 MAR 2007

FILE 'HCAPLUS' ENTERED AT 11:12:35 ON 22 MAR 2007
 L2 TRA L1 1- RN : 171 TERMS

FILE 'REGISTRY' ENTERED AT 11:12:36 ON 22 MAR 2007

L3 171 SEA L2
 L4 39 L3 AND C3-SC4/ES
 L5 STR
 L6 0 L5
 L7 STR L5
 L8 4 L7
 L9 64 L7 FULL
 SAV TEM J559C1/A L9
 L10 36 L4 AND L9
 L11 3 L4 NOT L10

FILE 'HCAPLUS' ENTERED AT 11:29:57 ON 22 MAR 2007

L12 20 L9
 E MOHER E/AU
 L13 42 E3-6
 E MONN J/AU

L14 135 E3-4,E6-8
 E PEDREGAL C/AU
 L15 58 E3,E5-6
 E TERCERO C/AU
 L16 2 E4-5
 E PEDREGAL-TERCERO/AU
 L17 18 E1
 L18 15226 (ELI LILLY OR LILLY OR ELI)/PA,CS
 L19 15 L12 AND L1,L13-18
 L20 5 L12 NOT L19
 L21 11 L19 AND (PD<=20021003 OR AD<=20021003 OR PRD<=20021003)

FILE 'REGISTRY' ENTERED AT 11:52:44 ON 22 MAR 2007

L22 7 E1-7
 L23 3 L22 AND C10H14N2O7S
 L24 1 L23 NOT MXS/CI

FILE 'HCAPLUS' ENTERED AT 11:55:34 ON 22 MAR 2007

L25 2 L24
 L26 0 LY404039 OY LY 404039
 L27 1 L25 AND L1,L13-18
 L28 2 L25,L27
 SEL AN L28 2
 L29 1 E8-9 AND L28

FILE 'REGISTRY' ENTERED AT 12:00:00 ON 22 MAR 2007

L30 3 E10-12
 L31 4 L9 AND C12H18N2O7S2

FILE 'HCAPLUS' ENTERED AT 13:08:17 ON 22 MAR 2007

L32 1 L31

FILE 'HCAOLD' ENTERED AT 13:10:28 ON 22 MAR 2007

L33 0 L9

FILE 'MEDLINE' ENTERED AT 13:10:34 ON 22 MAR 2007

L34 0 L9

FILE 'BIOSIS' ENTERED AT 13:10:40 ON 22 MAR 2007

L35 7 L9
 SEL HIT RN L35

FILE 'REGISTRY' ENTERED AT 13:12:14 ON 22 MAR 2007

L36 1 E13

FILE 'EMBASE' ENTERED AT 13:12:31 ON 22 MAR 2007

L37 16 L9
 SEL HIT RN L37

FILE 'REGISTRY' ENTERED AT 13:12:48 ON 22 MAR 2007

L38 1 E14

FILE 'BEILSTEIN' ENTERED AT 13:13:34 ON 22 MAR 2007

L39 4 L7 FULL

FILE 'MARPAT' ENTERED AT 13:14:34 ON 22 MAR 2007

L40 0 L7 SAM
 L41 6 L7 FULL

FILE 'WPIX' ENTERED AT 13:17:38 ON 22 MAR 2007

L42 1 L7
 L43 4 L7 FULL
 L44 3 L43 AND (835458-1-1-0 OR 835460-1-1-0 OR 835466-1-0-0)/DCSE
 SEL DCSE
 EDIT /DCSE /DCRE
 L45 0 E15-17

10 / 516559

SEL SDCN L44
EDIT /SDCN /DCN
1 E18-20

L46

=>